

AbstractBRUSHHEAD STEM WITH CORE CHANNELS FOR DISPENSING FLUIDS

The stem portion of a toothbrush body has a set of bristles on a bristle plate at one end thereof, the stem portion including a shell or stem body having a longitudinal opening therethrough. A core member is configured to fit within the stem body, having two opposed grooves in the exterior surface thereof along the length thereof. The stem body has two grooves in the interior surface thereof, such that the grooves in the core member and the grooves in the stem body can align to form separate fluid channels along the length of the stem portion. The stem portion receives fluid from a reservoir and delivers the fluid to the bristle plate, which includes exit openings for the fluid. The core member and the stem body also include fluid-tight connections therebetween, separating the two channels.